



GeoInsight®

Environmental Strategy & Engineering
Practical in Nature

December 21, 2008

GeoInsight Project 2491-001

Frank Gardner
U.S. Environmental Protection Agency
One Congress Street, Suite 1100-HBR
Boston, Massachusetts 02114-2023

Wells G + H
2.6

RE: Fifty-Fourth Progress Report
Administrative Order on Consent for Removal Action
Wells G&H Superfund Site
Olympia Nominee Trust Property
60 Olympia Avenue
Woburn, Massachusetts
CERCLA Docket # 01-2004-0059

Dear Mr. Gardner:

GeoInsight, Inc. (GeoInsight) prepared this progress report to describe activities completed at 60 Olympia Avenue in Woburn, Massachusetts (the Site) during the fifty-fourth progress report period (November 21, 2008 to December 21, 2008). This report was prepared in accordance with the June 21, 2004 United States Environmental Protection Agency (USEPA) Administrative Order on Consent for Removal Action (CERCLA Docket No. 01-2004-0059; the "Order"). The report was prepared by GeoInsight at the request of Olympia Nominee Trust, current owner of the 60 Olympia Avenue property.

Additional Activities

Sodium permanganate injection activities were performed at the Site between December 8 and 11, 2008. Approximately 4,300 gallons of two to three percent sodium permanganate solution were injected inside the treatment cell. Approximately 92 percent of the sodium permanganate solution (3,950 gallons) was delivered to the subsurface via direct push injection methods using a geoprobe. The remaining 8 percent (approximately 350 gallons) were injected via gravity methods into existing trenches.

During the week of December 15, 2008, the permanganate holding tank was cleaned and removed from the Site. A total of 21 55-gallon containers were also cleaned and removed from the Site for recycling.

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Permanganate Monitoring

To evaluate the distribution of sodium permanganate after the November 2008 injection event, monitoring wells inside and outside the treatment cell (i.e., MW-200 series) were monitored for the presence of permanganate (i.e., purple color) on December 4, 2008. Monitoring wells were visually monitored for color using a peristaltic pump and clear tubing. The results of these monitoring events will be presented in subsequent progress reports.

As discussed with Frank Gardner, the progress report schedule will be modified as of January 2009. GeoInsight will maintain the monthly schedule for progress reports during the spring (April, May, June) and fall (October, November, December). However, during the summer (July, August, September) and winter (January, February, March), one quarterly progress report (due September 15th and March 15th, respectively) will be submitted that will include a summary of performance monitoring data, a discussion of the successes and challenges of the previous season's field work, and the plans and possible modifications for the next season's field work. Therefore, the next progress report will be submitted on March 15, 2009.

Please contact us at 978-692-1114 if you have questions regarding the content of this progress report.

Sincerely,
GEOINSIGHT, INC.

Christene A. Binger
Senior Hydrogeologist

for Michael J. Webster, P.G., L.S.P.
Senior Associate

cc: Chub Whitten, Olympia Nominee Trust
David P. Rosenblatt, Esq., Burns & Levinson LLP

Attachments:
Work Plan Implementation Schedule



WORK PLAN IMPLEMENTATION SCHEDULE
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

TASK DESCRIPTION	SCHEDULE
Permits Submit permit application to Massachusetts Water Resources Authority (MWRA) to drive sheet pile and continue construction activities. MWRA Approval	Completed October 2004 October 26, 2004
Site Preparation Bridge Enhancements for Sheet Pile Crane Brush Clearing	Completed November 2004
Sheet Pile Installation	Completed January 2005
Injection Well and Trench Installation Trenching Horizontal Wells (5 days) Drilling Vertical Injection Wells (10 days) Monitoring Well Installation Additional Injection Wells F-5, F-6, F-7 K-Series	Completed January 2005 Completed February 2005 Completed August 2005 Completed May 2007
Installation of Liquid Permanganate Delivery System Staging Area for Permanganate Storage Delivery of Permanganate (70 drums total) Delivery of Permanganate (70 drums total) Delivery of Permanganate (21 drums total) Delivery of Permanganate (4 drums total) Delivery of Permanganate (8 drums total) Delivery of Permanganate (5 drums total) Delivery of Permanganate (4 drums total) Delivery of Permanganate (4 drums total)	Completed May 2005 May 11, 2005 and June 10, 2005 October 7, 2005 and October 28, 2005 December 2, 2005 September 5, 2007 May 19, 2008 October 13, 2008 November 10, 2008 December 8, 2008



WORK PLAN IMPLEMENTATION SCHEDULE
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS

TASK DESCRIPTION	SCHEDULE
Up to 20 Injection Events - Dependent on Site Monitoring (1,000 gallons of 40 percent NaMnO ₄ per event)	1 st Injection: September 1, 2005 (Trenches) 2 nd Injection: September 15, 2005 (Trenches) 3 rd Injection: September 29, 2005 (Wells) 4 th Injection: October 13, 2005 (Trenches) 5 th Injection: November 3, 2005 (Wells) 6 th Injection: November 10, 2005 (Trenches) 7 th Injection: November 22, 2005 (Wells) 8 th Injection: December 16, 2005 (Wells/Trenches)
Focused Injection Events (220 gallons of 40 percent NaMnO ₄) (3,200 gallons of 5 percent NaMnO ₄) (3,700 gallons of 2 to 4 percent NaMnO ₄) (4,800 gallons of 2 to 3 percent NaMnO ₄) (4,300 gallons of 2 to 3 percent NaMnO ₄)	9 th Injection: September 6, 2007 (Wells) 10 th Injection: May 20 to 22, 2008 (Direct Push/Wells/Trenches) 11 th Injection : October 14 to 17, 2008 (East Side, Direct Push/Trenches) 12 th Injection : November 10 to 14, 2008 (Direct Push/Trenches) 13 th Injection : December 8 to 11, 2008 (Direct Push/ Trenches)
Ground Water Monitoring 2005 Baseline Comprehensive Sampling Event Focused Sampling Events 2006 Comprehensive Sampling Event Focused Sampling Events	April 13 and 14, 2005 September 13, 2005 January 11, 2006 February 9, 2006 March 10, 2006 April 24, 25, and 26, 2006 July 19, 2006 August 31, 2006 September 28, 2006 October 30, 2006 December 14, 2006 March 28, 2007



**WORK PLAN IMPLEMENTATION SCHEDULE
60 OLYMPIA AVENUE
WOBURN, MASSACHUSETTS**

TASK DESCRIPTION	SCHEDULE
Ground Water Monitoring (continued) 2007 Comprehensive Sampling Event Focused Sampling Event 2008 Comprehensive Sampling Event Focused Sampling Event	 April 24, 25, 26, 2007 November 5, 2007 April 22, 23, and 24, 2008 August 6, 2008
Additional Assessment Activities included in November 28, 2006 Scope of Work Subsurface Investigation Activities Focused Ground Water Sampling Event	 May 14 to 18, 2007 June 18, 2007
Additional Assessment Activities included in March 14, 2008 Scope of Work Subsurface Investigation Activities	 June 9 to 11, 2008